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|---|---|---|---|---|---|---|
| L1 | 2 | "5903749".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/20 13:30 |
| L2 | 162 | ((resource memor$3 disk) near4 allocat$3) same ((plurality multiple multi) near4 (watermark (water adj mark) quota threshold limit$3)) | USPAT | OR | ON | 2005/11/20 14:03 |
| L3 | 2 | l2 same ((denying denial refus$3 allow$3 grant$3 authoriz$7 permi$5) with (exceed$3 above beyond) with (watermark (water adj mark) quota threshold limit$3)) | USPAT | OR | ON | 2005/11/20 14:05 |
| L4 | 140 | ( (soft-limit$5 softlimit$5 (soft adj2 limit$5)) same (hard-limit$5 hardlimit$5 (hard adj2 limit$5))) same (exceed$3 over above beyond high$3 low$3 below under) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/20 14:05 |
| L5 | 61 | (((hardlimit$3 hard-limit$3 (hard near3 limit$3)) and ( softlimit$3 soft-limit$3 (soft near3 limit$3)) ) and ((potential associat$3) with (task$3 process$3 program client user))) and ( (authoriz$7 den$4 allow$4 permi$6 grant$3 allocat$3) with (resource access$7) ) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/20 14:06 |
| L6 | 0 | l2 and 718/100.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/20 14:09 |
| L7 | 0 | l2 and 718/102.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/20 14:08 |
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| L9 | 8 | l2 and 709/226.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/20 14:09 |

| L10 | 1 | 14 and 718/102.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2005/11/20 14:09 |
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| L14 | 1 | 15 and 709/226.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2005/11/20 14:09 |
| L15 | 1 | 15 and 718/100.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2005/11/20 14:09 |
| L16 | 1 | 15 and 718/102.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2005/11/20 14:09 |
| L17 | 1 | 15 and 718/104.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2005/11/20 14:10 |

**PALM INTRANET**

# Inventor Information for 09/687436

| Inventor Name | City | State/Country |
|---|---|---|
| KARP, ALAN H. | PALO ALTO | CALIFORNIA |
| ROKICKI, THOMAS | PALO ALTO | CALIFORNIA |

| Appln Info | Contents | Petition Info | Atty/Agent Info | Continuity Data | Foreign Data | Inven

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## Inventor Name Search Result

Your Search was:

Last Name = KARP
First Name = ALAN

| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
|---|---|---|---|---|---|
| 08675170 | 5903749 | 150 | 07/02/1996 | METHOD AND APPARATUS FOR IMPLEMENTING CHECK INSTRUCTIONS THAT ALLOW FOR THE REUSE OF MEMORY CONFLICT INFORMATION IF NO MEMORY CONFLICT OCCURS | KARP, ALAN |
| 08953836 | Not Issued | 161 | 10/13/1997 | RECOVERY FROM EXCEPTION DEFERED BY SPECULATIVE INSTRUCTIONS | KARP, ALAN |
| 10146974 | Not Issued | 41 | 05/15/2002 | Method for visualizing graphical data sets having a non-uniform graphical density for display | KARP, ALAN |
| 10796690 | Not Issued | 30 | 03/08/2004 | System and method for safely executing downloaded code on a computer system | KARP, ALAN |
| 10903002 | Not Issued | 30 | 07/30/2004 | System and method for using message acknowledgements to optimize network performance | KARP, ALAN |
| 11117213 | Not Issued | 30 | 04/28/2005 | Executing an alternate instruction stream | KARP, ALAN |
| 11117216 | Not Issued | 30 | 04/28/2005 | Caching data in a multi-processor system | KARP, ALAN |
| 11117217 | Not Issued | 30 | 04/28/2005 | Executing an instruction stream | KARP, ALAN |
| 09376149 | 6493712 | 150 | 08/17/1999 | SELF-DESCRIBING ATTRIBUTE VOCABULARIES IN A SOFTWARE SYSTEM | KARP, ALAN H |
| 09525515 | Not Issued | 61 | 03/15/2000 | Negotiation protocol with compromise that is guaranteed to terminate | KARP, ALAN H. |
| 09539558 | Not Issued | 61 | 03/31/2000 | Apparatus and method for selling personal information | KARP, ALAN H. |
| 09559508 | 6631460 | 150 | 04/27/2000 | ADVANCED LOAD ADDRESS TABLE ENTRY INVALIDATION BASED ON REGISTER ADDRESS WRAPAROUND | KARP, ALAN H. |
| 09575748 | Not | 61 | 05/22/2000 | Event handling using publish and | KARP, ALAN H. |

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|---|---|---|---|---|---|
| 09687436 | Not Issued | 121 | 10/13/2000 | Flexible allocation of a resource | KARP, ALAN H. |
| 09733012 | Not Issued | 94 | 12/08/2000 | METHOD AND SYSTEM OF TYPING RESOURCES IN A DISTRIBUTED SYSTEM | KARP, ALAN H. |
| 09758087 | 6732127 | 150 | 01/10/2001 | VERIFIABLE RANDOM NUMBER GENERATOR USING CHAOS | KARP, ALAN H. |
| 09858251 | Not Issued | 30 | 05/15/2001 | Automated decision support system for designing auctions | KARP, ALAN H. |
| 09862612 | Not Issued | 121 | 05/23/2001 | Lightweight dynamic service conversation controller | KARP, ALAN H. |
| 09882581 | Not Issued | 30 | 06/14/2001 | Assessing health of a subsystem or service within a networked system | KARP, ALAN H. |
| 09922551 | Not Issued | 167 | 08/02/2001 | Look-ahead load pre-fetch in a processor | KARP, ALAN H. |
| 09963270 | Not Issued | 41 | 09/24/2001 | Providing instruction execution hints to a processor using break instructions | KARP, ALAN H. |
| 09994635 | Not Issued | 61 | 11/28/2001 | Computer language for defining business conversations | KARP, ALAN H. |
| 10003349 | Not Issued | 61 | 12/06/2001 | Transformational conversation definition language | KARP, ALAN H. |
| 10122511 | Not Issued | 71 | 04/15/2002 | Wireless network system | KARP, ALAN H. |
| 10184970 | 6752837 | 150 | 06/28/2002 | SECURITY TAGS WITH A REVERSIBLE VISIBLE INDICATOR | KARP, ALAN H. |
| 10211721 | Not Issued | 30 | 08/02/2002 | System-specific passwords | KARP, ALAN H. |
| 10229246 | 6765565 | 150 | 08/26/2002 | METHOD FOR ENHANCING A SPORTING EVENT BY LOCALIZED INFORMATION DISPLAY | KARP, ALAN H. |
| 10255818 | Not Issued | 30 | 09/26/2002 | Network service system and mechanism for searching service registries | KARP, ALAN H. |
| 10452527 | Not Issued | 30 | 06/02/2003 | Automated negotiation | KARP, ALAN H. |
| 10632402 | Not Issued | 30 | 07/31/2003 | System and method for selectively increasing message transaction costs | KARP, ALAN H. |
| 10637308 | Not Issued | 30 | 08/08/2003 | Method and apparatus for identifying an object using an object description language | KARP, ALAN H. |
| 10733502 | Not Issued | 30 | 12/11/2003 | Method for exchanging information | KARP, ALAN H. |

| 10798187 | Not Issued | 20 | 03/10/2004 | Method and apparatus for processing descriptive statements | KARP, ALAN H. |
|---|---|---|---|---|---|
| 10823837 | Not Issued | 30 | 04/12/2004 | Method and system for cryptographically secure hashed end marker of streaming data | KARP, ALAN H. |
| 10835178 | Not Issued | 30 | 04/30/2004 | Computer architechture including implemented and unimplemented registers | KARP, ALAN H. |
| 10870721 | Not Issued | 20 | 06/16/2004 | Synchronization of threads in a multithreaded computer program | KARP, ALAN H. |
| 10870722 | Not Issued | 20 | 06/16/2004 | Detecting data races in multithreaded computer programs | KARP, ALAN H. |
| 10871971 | Not Issued | 30 | 06/18/2004 | Detecting memory address bounds violations | KARP, ALAN H. |
| 10902156 | Not Issued | 20 | 07/30/2004 | Computer executing instructions having embedded synchronization points | KARP, ALAN H. |
| 10902199 | Not Issued | 20 | 07/28/2004 | Method and system for optional code scheduling | KARP, ALAN H. |
| 10924295 | Not Issued | 20 | 08/23/2004 | Authentication | KARP, ALAN H. |
| 10928188 | Not Issued | 20 | 08/30/2004 | Method of accessing a file for editing with an application having limited access permissions | KARP, ALAN H. |
| 10958276 | Not Issued | 30 | 10/06/2004 | Sending a message to an alert computer | KARP, ALAN H. |
| 10977271 | Not Issued | 20 | 10/29/2004 | Providing a user a non-degraded presentation experience while limiting access to the non-degraded presentation experience | KARP, ALAN H. |
| 11038717 | Not Issued | 20 | 01/20/2005 | Negotiation system and processor-based method | KARP, ALAN H. |
| 11141839 | Not Issued | 20 | 06/01/2005 | Method and system of typing resources in a distributed system | KARP, ALAN H. |
| 60253953 | Not Issued | 159 | 11/28/2000 | Language for defining business conversations | KARP, ALAN H. |
| 06614410 | 4603323 | 150 | 05/25/1984 | METHOD FOR EXTENDING THE EXPONENT RANGE OF AN IBM 370-TYPE FLOATING POINT PROCESSOR | KARP, ALAN H. |
| 07082015 | 4866769 | 150 | 08/05/1987 | HARDWARE ASSIST FOR PROTECTING PC SOFTWARE | KARP, ALAN H. |
| 07197060 | 5093916 | 150 | 05/20/1988 | SYSTEM FOR INTERTING CONSTRUCTS INTO COMPILED CODE, DEFINING SCOPING OF COMMON BLOCKS AND DYNAMICALLY BINDING | KARP, ALAN H. |

| | | | | COMMON BLOCKS TO TASKS | |
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## Inventor Name Search Result

Your Search was:

Last Name = ROKICKI
First Name = THOMAS

| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
|---|---|---|---|---|---|
| 09687436 | Not Issued | 121 | 10/13/2000 | Flexible allocation of a resource | ROKICKI, THOMAS |

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**81   Multicast Video-on-Demand services**
Huadong Ma, Kang G. Shin
January 2002        **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 1
**Publisher:** ACM Press
Full text available: 📄 pdf(1.28 MB)                           Additional Information: full citation, ab

The server's storage I/O and network I/O bandwidths are the main bottleneck of VoD service. Multicas VoD performance. However, there are many problems to overcome before development of multicast V( systems. We first present the concept and architecture of multicast VoD, and then introduce ...

**Keywords:** Quality-of-Service (QoS), VCR-like interactivity, Video-on-Demand (VoD), multicast, schec

**82   Efficient network and I/O throttling for fine-grain cycle stealing**
Kyung D. Ryu, Jeffrey K. Hollingsworth, Peter J. Keleher
November 2001        **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDR(**
**Publisher:** ACM Press
Full text available: 📄 pdf(127.89 KB)                          Additional Information: full citation, ab

This paper proposes and evaluates a new mechanism, rate windows, for I/O and network rate policing. target classes of jobs in a system. This work was motivated by our Linger Longer infrastructure, which Longer can leave guest jobs on non-idle nodes and machine owners should not be adversely a ...

**83   Storage management and caching in PAST, a large-scale, persistent peer-to-peer storage utility**
Antony Rowstron, Peter Druschel
October 2001        **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth /**
**Publisher:** ACM Press
Full text available: 📄 pdf(1.48 MB)                           Additional Information: full citation, ab

This paper presents and evaluates the storage management and caching in PAST, a large-scale peer-t( storage nodes that cooperatively route file queries, store multiple replicas of files, and cache additional distributed identifiers, and replicas of a file are stored at nodes whose identifier matches ...

**84   SEDA: an architecture for well-conditioned, scalable internet services**
Matt Welsh, David Culler, Eric Brewer
October 2001        **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth /**
**Publisher:** ACM Press
Full text available: 📄 pdf(1.51 MB)                           Additional Information: full citation, ab

We propose a new design for highly concurrent Internet services, which we call the *staged event-drive* construction of well-conditioned services. In SEDA, applications consist of a network of event-driven *st* preventing resources from being overcommitted when demand exceeds service cap ...

**85** Anticipatory scheduling: a disk scheduling framework to overcome deceptive idleness in synchro

Sitaram Iyer, Peter Druschel

October 2001                **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth** *A*

**Publisher:** ACM Press

Full text available: pdf(1.61 MB)                                Additional Information: full citation, ab

Disk schedulers in current operating systems are generally work-conserving, i.e., they schedule a requ requests from each process to meet system-level goals of performance and quality of service. Unfortur successive requests with short periods of computation. The scheduler chooses the next request too ea

**86** Information and control in gray-box systems

Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

October 2001                **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth** *A*

**Publisher:** ACM Press

Full text available: pdf(1.59 MB)                                Additional Information: full citation, ab

In modern systems, developers are often unable to modify the underlying operating system. To build s operating system as a gray-box, one recognizes that not changing the OS restricts, but does not comp one can impose on the OS. In this paper, we develop and investigate three gray-bo ...

**87** Managing energy and server resources in hosting centers

Jeffrey S. Chase, Darrell C. Anderson, Prachi N. Thakar, Amin M. Vahdat, Ronald P. Doyle

October 2001                **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth** *A*

**Publisher:** ACM Press

Full text available: pdf(1.61 MB)                                Additional Information: full citation, ab

Internet hosting centers serve multiple service sites from a common hardware base. This paper preser operating system, with an emphasis on *energy* as a driving resource management issue for large serve adapts to offered load, improve the energy efficiency of server clusters by dynamically res ...

**88** On the quantification of e-business capacity

Moises Goldszmidt, Derek Palma, Bikash Sabata

October 2001                **Proceedings of the 3rd ACM conference on Electronic Commerce**

**Publisher:** ACM Press

Full text available: pdf(1.13 MB)                                Additional Information: full citation, ab

In order for current e-Businesses to mature from hastily assembled systems and applications, formal p quality of service and service--level assurances. There are many challenges that e-Businesses face in f business objectives and the information system performance objectives. Next, the characterizatio ...

**89** Prioritized resource allocation for stressed networks

Cory C. Beard, Victor S. Frost

October 2001                **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 5

**Publisher:** IEEE Press

Full text available: pdf(253.05 KB)                                Additional Information: full citation, ab

Overloads that occur during times of network stress result in blocked access to all users, independent demand. Public broadband networks must dynamically recognize some multimedia connections as havi admission control is proposed that uses an upper limit policy to optimize the admission of connectio ...

**Keywords:** Computer network performance, resource management

**90**
Multitasking without comprimise: a virtual machine evolution

Grzegorz Czajkowski, Laurent Daynés
October 2001          **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference**
                      Issue 11
**Publisher:** ACM Press
Full text available: pdf(220.97 KB)                    Additional Information: full citation, ab

The multitasking virtual machine (called from now on simply MVM) is a modification of the Java virtual
application from one another. Resource control augment security by preventing some denial-of-service
share as much of the runtime as possible among applications and replicate everything el ...

**Keywords:** Java virtual machine, application isolation, native code execution, resource control

**91**  Video Storage: Periodic broadcast and patching services: implementation, measurement, and ar
Michael K. Bradshaw, Bing Wang, Lixin Gao, Jim Kurose, Prashant Shenoy, Don Towsley, Subhabrata Ser
October 2001          **Proceedings of the ninth ACM international conference on Multimedia**
**Publisher:** ACM Press
Full text available: pdf(797.96 KB)                    Additional Information: full citation, ab

Multimedia streaming applications can consume a significant amount of server and network resources.
in innovative ways to reduce server and network load, while at the same time allowing asynchronous a
primarily on the algorithmic aspects of these approaches, with evaluation performed via analysis ...

**Keywords:** patching, periodic broadcast, server

**92**  Streaming 2: Server-based smoothing of variable bit-rate streams
Stergios V. Anastasiadis, Kenneth C. Sevcik, Michael Stumm
October 2001          **Proceedings of the ninth ACM international conference on Multimedia**
**Publisher:** ACM Press
Full text available: pdf(851.29 KB)                    Additional Information: full citation, ab

We introduce an algorithm that uses buffer space available at the server for smoothing disk transfers c
space, instead. However, emergence of personal computing devices with widely different hardware cor
algorithm is shown to have optimal smoothing effect under the specified constraints. We inc ...

**93**  Computing curricula 2001
September 2001  **Journal on Educational Resources in Computing (JERIC)**
**Publisher:** ACM Press
Full text available: pdf(613.63 KB) html(2.78 KB)     Additional Information: full citation, references, citings, index ter

**94**  Approximate query processing using wavelets
Kaushik Chakrabarti, Minos Garofalakis, Rajeev Rastogi, Kyuseok Shim
September 2001          **The VLDB Journal — The International Journal on Very Large Data Bases,**
**Publisher:** Springer-Verlag New York, Inc.
Full text available: pdf(390.24 KB)                    Additional Information: full citation, ab

Approximate query processing has emerged as a cost-effective approach for dealing with the huge dat
work in this area, however, has so far been limited in its query processing scope, typically focusing on
histograms appear to be inherently limited when it comes to approximating the results of complex que

**Keywords:** Approximate query answers, Data synopses, Query processing, Wavelet decomposition

**95**  Parallel execution of prolog programs: a survey
Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo
July 2001          **ACM Transactions on Programming Languages and Systems (TOPLAS),** Vo

**Publisher:** ACM Press

Full text available: 📄 pdf(1.95 MB)                                      Additional Information: full citation, ab:

> Since the early days of logic programming, researchers in the field realized the potential for exploitatio
> nondeterminism, and their referential transparency, among other characteristics, make logic programs
> the typical applications of logic programming frequently involve irregular computatio ...

> **Keywords:** Automatic parallelization, constraint programming, logic programming, parallelism, prolog

**96** Data and memory optimization techniques for embedded systems

P. R. Panda, F. Catthoor, N. D. Dutt, K. Danckaert, E. Brockmeyer, C. Kulkarni, A. Vandercappelle, P. G. I
April 2001           **ACM Transactions on Design Automation of Electronic Systems (TODAES)**,

**Publisher:** ACM Press

Full text available: 📄 pdf(339.91 KB)                                      Additional Information: full citation, ab:

> We present a survey of the state-of-the-art techniques used in performing data and memory-related o
> subsystem, and impact one or more out of three important cost metrics: area, performance, and powe
> the form of code transoformations. We next cover a broad spectrum of optimizati ...

> **Keywords:** DRAM, SRAM, address generation, allocation, architecture exploration, code transformatio
> power dissipation, register file, size estimation, survey

**97** I/O reference behavior of production database workloads and the TPC benchmarks—an analysi:

Windsor W. Hsu, Alan Jay Smith, Honesty C. Young
March 2001           **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 1

**Publisher:** ACM Press

Full text available: 📄 pdf(5.42 MB)                                      Additional Information: full citation, ab:

> As improvements in processor performance continue to far outpace improvements in storage performa
> manage huge amoungs of data. The key to achieving good I/O performance is to thoroughly understar
> behavior of the peak productiondatabase workloads from ten of the world's largest corporatio ...

> **Keywords:** I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, refer

**98** A static power model for architects

J. Adam Butts, Gurindar S. Sohi
December 2000   **Proceedings of the 33rd annual ACM/IEEE international symposium on Microarc**

**Publisher:** ACM Press

Full text available: 📄 pdf(136.88 KB) 📄 ps(431.76 KB) 📄   Additional Information: full citation, references, citings, index term:
Publisher Site

**99** Calpa: a tool for automating selective dynamic compilation

Markus Mock, Craig Chambers, Susan J. Eggers
December 2000   **Proceedings of the 33rd annual ACM/IEEE international symposium on Microarc**

**Publisher:** ACM Press

Full text available: 📄 pdf(117.36 KB) 📄 ps(313.09 KB) 📄   Additional Information: full citation, references, citings, index term:
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**100** Process migration

September 2000           **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3
**Publisher:** ACM Press

Full text available: 📄 pdf(1.24 MB)                    Additional Information: full citation, ab:

Process migration is the act of transferring a process between two machines. It enables dynamic load (
and ongoing research efforts, migration has not achieved widespread use. With the increasing deploym
is again receiving more attention in both research and product development. As hi ...

**Keywords**: distributed operating systems, distributed systems, load distribution, process migration

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**101** Cellular disco: resource management using virtual clusters on shared-memory multiprocessors
Kinshuk Govil, Dan Teodosiu, Yongqiang Huang, Mendel Rosenblum
August 2000         **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3
**Publisher:** ACM Press
Full text available: 📄 pdf(287.05 KB)                    Additional Information: full citation, ab:

Despite the fact that large-scale shared-memory multiprocessors have been commercially available for
complexity and cost of making the required changes to the operating system. A recently proposed app
laverages the existing operating system technology. In this paper we present a ...

**Keywords:** fault containment, resource managment, scalable multiprocessors, virtual machines

**102** Improving interactive performance using TIPME
Yasuhiro Endo, Margo Seltzer
June 2000         **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 20
systems SIGMETRICS '00**, Volume 28 Issue 1
**Publisher:** ACM Press
Full text available: 📄 pdf(1.05 MB)                    Additional Information: full citation, ab:

On the vast majority of today's computers, the dominant form of computation is GUI-based user intera
research shows that a user's perception of performance is affected by unexpectedly long delays. Howe·
techniques improve the average performance of the system, they do littl ...

**Keywords:** interactive performance, monitoring

**103** NiagaraCQ: a scalable continuous query system for Internet databases
Jianjun Chen, David J. DeWitt, Feng Tian, Yuan Wang
May 2000         **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD internationa**
**Publisher:** ACM Press
Full text available: 📄 pdf(165.02 KB)                    Additional Information: full citation, ab:

Continuous queries are persistent queries that allow users to receive new results when they become av
need to be able to support millions of queries due to the scale of the Internet. No existing systems hav
based on the observation that many web queries share similar structures. Grouped queries ...

**104** System-level power optimization: techniques and tools
Luca Benini, Giovanni de Micheli
April 2000         **ACM Transactions on Design Automation of Electronic Systems (TODAES)**,

**Publisher:** ACM Press

Full text available: pdf(385.22 KB)                                        Additional Information: <u>full citation</u>, <u>ab</u>

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic s
hardware that consume energy, namely computation, communication, and storage units, and we revie
software, and methods for energy-efficient software design and compilation. This survery ...

**105** The LHAM log-structured history data access method
Peter Muth, Patrick O'Neil, Achim Pick, Gerhard Weikum
February 2000              **The VLDB Journal — The International Journal on Very Large Data Bases**,
**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(494.76 KB)                                        Additional Information: <u>full citation</u>, <u>ab</u>

Numerous applications such as stock market or medical information systems require that both historica
support different forms of "time-travel" queries, the migration of old record versions onto inexpensive
transaction-time temporal data, called the log-structured history data access method (L ...

**Keywords:** Data warehouses, Index structures, Performance, Storage systems, Temporal databases

**106** Secure buffering in firm real-time database systems
Binto George, Jayant R. Haritsa
February 2000              **The VLDB Journal — The International Journal on Very Large Data Bases**,
**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(227.42 KB)                                        Additional Information: <u>full citation</u>, <u>ab</u>

Many real-time database applications arise in electronic financial services, safety-critical installations a
performance implications, in terms of killed transactions, of guaranteeing *multi-level secrecy* in a real-t
*management* aspects of this issue.Our main contributions a ...

**Keywords:** Buffer management, Covert channels, Firm deadlines, Real-time database

**107** Cellular Disco: resource management using virtual clusters on shared-memory multiprocessors
Kinshuk Govil, Dan Teodosiu, Yongqiang Huang, Mendel Rosenblum
December 1999              **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth**
**Publisher:** ACM Press

Full text available: pdf(1.93 MB)                                        Additional Information: <u>full citation</u>, <u>ab</u>

Despite the fact that large-scale shared-memory multiprocessors have been commercially available for
complexity and cost of making the required changes to the operating system. A recently proposed app
leverages the existing operating system technology.In this paper we present a syste ...

**108** Progress-based regulation of low-importance processes
John R. Douceur, William J. Bolosky
December 1999              **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth**
**Publisher:** ACM Press

Full text available: pdf(1.53 MB)                                        Additional Information: <u>full citation</u>, <u>ab</u>

MS Manners is a mechanism that employs progress-based regulation to prevent resource contention w
mechanism assumes that resource contention that degrades the performance of a high-importance prc
monitoring the progress of the low-importance process and inferring resource contention from a drop i

**Keywords:** process priority, progress-based feedback, symmetric resource contention

**109** Borrowed-virtual-time (BVT) scheduling: supporting latency-sensitive threads in a general-purpo:
Kenneth J. Duda, David R. Cheriton

December 1999          **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth**

**Publisher:** ACM Press

Full text available: pdf(1.81 MB)                                    Additional Information: full citation, ab

Systems need to run a larger and more diverse set of applications, from real-time to interactive to bat latency requirements or are specialized to complex real-time paradigms, limiting their applicability to g it provides low-latency for real-time and interactive applications yet weighted sharin ...

**110** The interactive performance of SLIM: a stateless, thin-client architecture

Brian K. Schmidt, Monica S. Lam, J. Duane Northcutt

December 1999          **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth**

**Publisher:** ACM Press

Full text available: pdf(1.79 MB)                                    Additional Information: full citation, ab

Taking the concept of thin clients to the limit, this paper proposes that desktop machines should just b computational resources over a dedicated interconnection fabric --- much in the same way as a buildin provides a useful mobility model in which users can transparently resume their work on any desktop c

**111** R × W: a scheduling approach for large-scale on-demand data broadcast

Demet Aksoy, Michael Franklin

December 1999  **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 6

**Publisher:** IEEE Press

Full text available: pdf(332.50 KB)              Additional Information: full citation, references, citings, index term

**112** The SIFT information dissemination system

Tak W. Yan, Hector Garcia-Molina

December 1999          **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 4

**Publisher:** ACM Press

Full text available: pdf(220.77 KB)                                    Additional Information: full citation, ab

Information dissemination is a powerful mechanism for finding information in wide-area environments. information sources, matches the documents against the queries, and continuously updates the users (SIFT), a system that as of April 1996 was processing over 40,000 worldwide subscriptions and ov ...

**Keywords:** Boolean queries, dissemination, filtering, indexing, vector space queries

**113** Static scheduling algorithms for allocating directed task graphs to multiprocessors

Yu-Kwong Kwok, Ishfaq Ahmad

December 1999          **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4

**Publisher:** ACM Press

Full text available: pdf(723.58 KB)                                    Additional Information: full citation, ab

Static scheduling of a program represented by a directed task graph on a multiprocessor system to mi optimal schedule is an NP-complete problem in general, researchers have resorted to devising efficient including branch-and-bound, integer-programming, searching, graph-theory, randomization, genetic ..

**Keywords:** DAG, automatic parallelization, multiprocessors, parallel processing, software tools, static

**114** Resource partitioning in general purpose operating systems: experimental results in Windows N

D. G. Waddington, D. Hutchison

October 1999          **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.56 MB)                                    Additional Information: full citation, ab

The principal role of the operating system is that of resource management. Its task is to present a set

systems, including Windows NT, federate resource sharing in a fair manner, with the predominant goal applications that have stringent Quality-of-Service (QoS) and resource management require ...

**115** <u>Parallel texture caching</u>
Homan Igehy, Matthew Eldridge, Pat Hanrahan
July 1999   **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on Graphics hardwar**
**Publisher:** ACM Press
Full text available: <u>pdf(1.80 MB)</u>          Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

**116** <u>Fast joins using join indices</u>
Zhe Li, Kenneth A. Ross
April 1999              **The VLDB Journal — The International Journal on Very Large Data Bases**,
**Publisher:** Springer-Verlag New York, Inc.
Full text available: <u>pdf(263.06 KB)</u>                          Additional Information: <u>full citation</u>, <u>ab</u>

Two new algorithms, "Jive join" and "Slam join," are proposed for computing the join of two relations ι processes each partition, while Slam join forms ordered runs of input relation tuple ids and then merge one pass through the join index and two passes through a te ...

**Keywords:** Decision support systems, Query processing

**117** <u>Real-time estimation and dynamic renegotiation of UPC parameters for arbitrary traffic sources iι</u>
Brian L. Mark, Gopalakrishnan Ramamurthy
December 1998  **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6
**Publisher:** IEEE Press
Full text available: <u>pdf(424.49 KB)</u>   .              Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index term</u>

**Keywords:** asynchronous transfer mode, quality of service, real-time estimation, resource allocation,.

**118** <u>SAVE: an algorithm for smoothed adaptive video over explicit rate networks</u>
N. G. Duffield, K. K. Ramakrishnan, Amy R. Reibman
December 1998  **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6
**Publisher:** IEEE Press
Full text available: <u>pdf(539.13 KB)</u>              Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index term</u>

**Keywords:** compressed video, multiplexing, rate control, smoothing

**119** <u>Driving resource management with application-level quality of service specifications</u>
Michael J. Katchabaw, Hanan L. Lutfiyya, Michael A. Bauer
October 1998 **Proceedings of the first international conference on Information and computation**
**Publisher:** ACM Press
Full text available: <u>pdf(1.12 MB)</u>              Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

**Keywords:** application-level quality of service, dynamic resource management, quality of service spec

**120**
<u>Vclusters: a flexible, fine-grained object clustering mechanism</u>

Mark L. Mcauliffe, Michael J. Carey, Marvin H. Solomon
October 1998          **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference**
                      Issue 10
**Publisher:** ACM Press
Full text available: pdf(2.07 MB)                                    Additional Information: full citation, ab

We consider the problem of delivering an effective fine-grained clustering tool to implementors and use contrasted with earlier work that concentrates on clustering *policies* (deciding which objects should be lead to poor space utilization on disk and in the disk block cache, particularl ...

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